

(No Model.)

E. D. LARAWAY.
SPRING BED BOTTOM.

No. 283,903.

Patented Aug. 28, 1883.

Fig. 1.

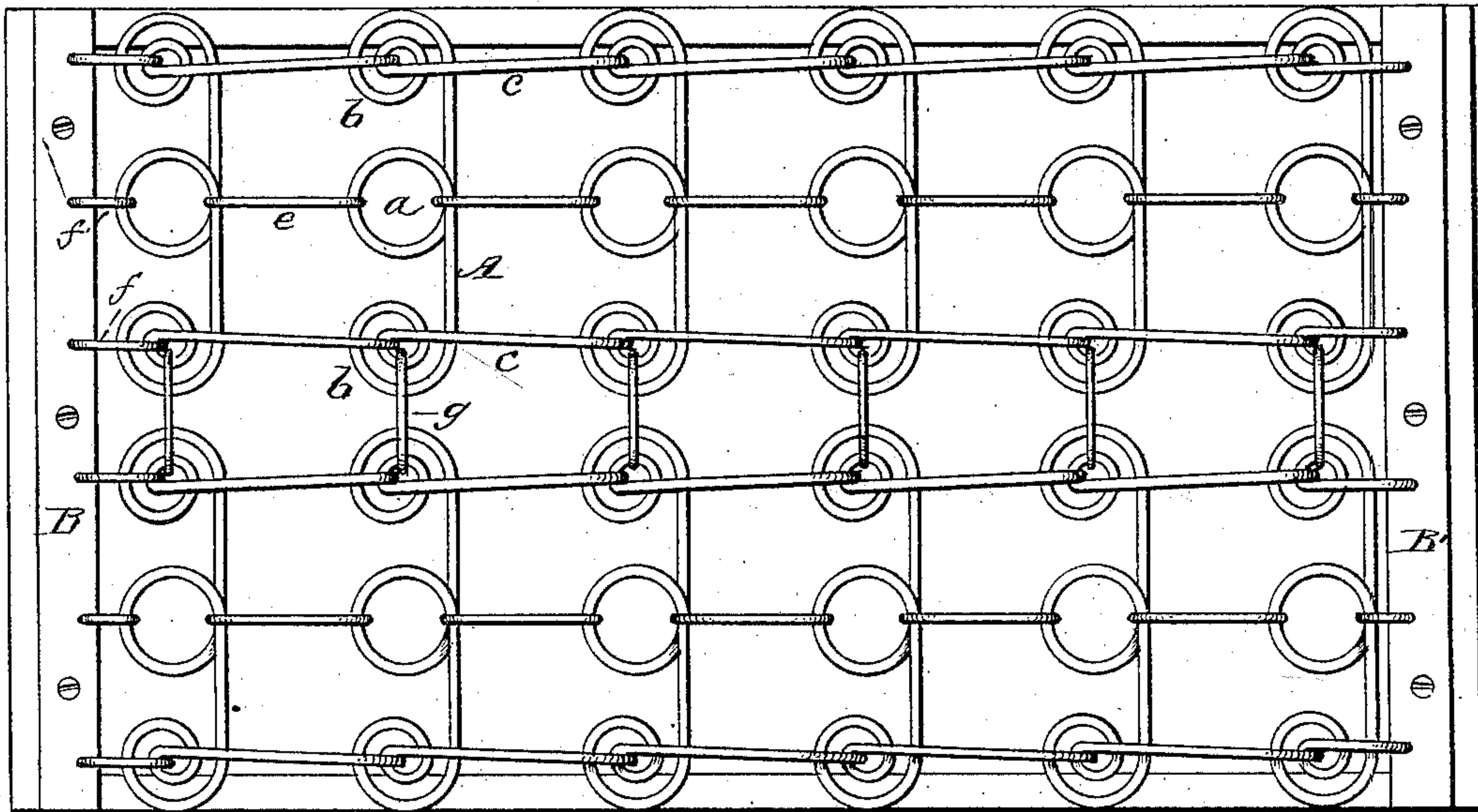


Fig. 2.

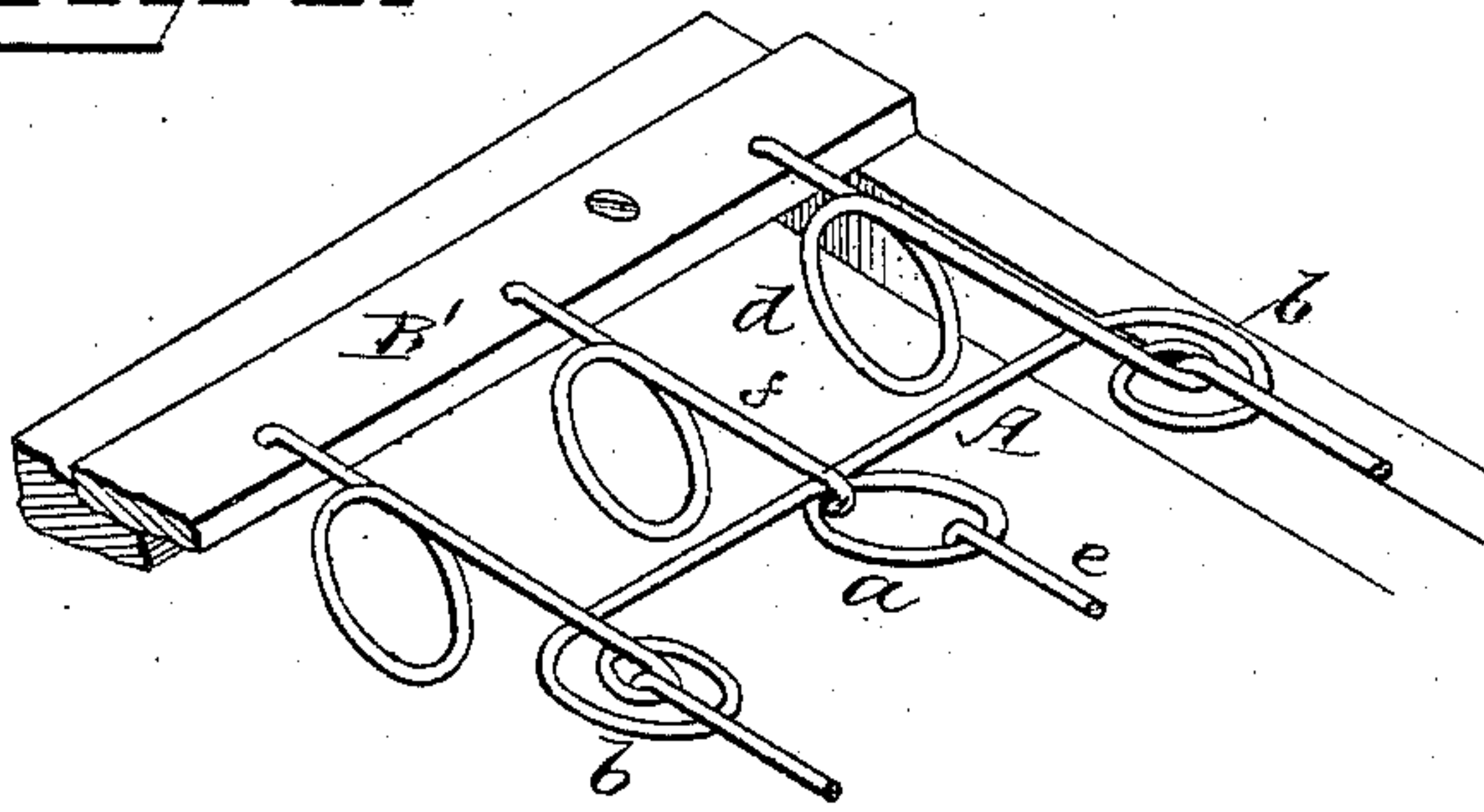


Fig. 3.

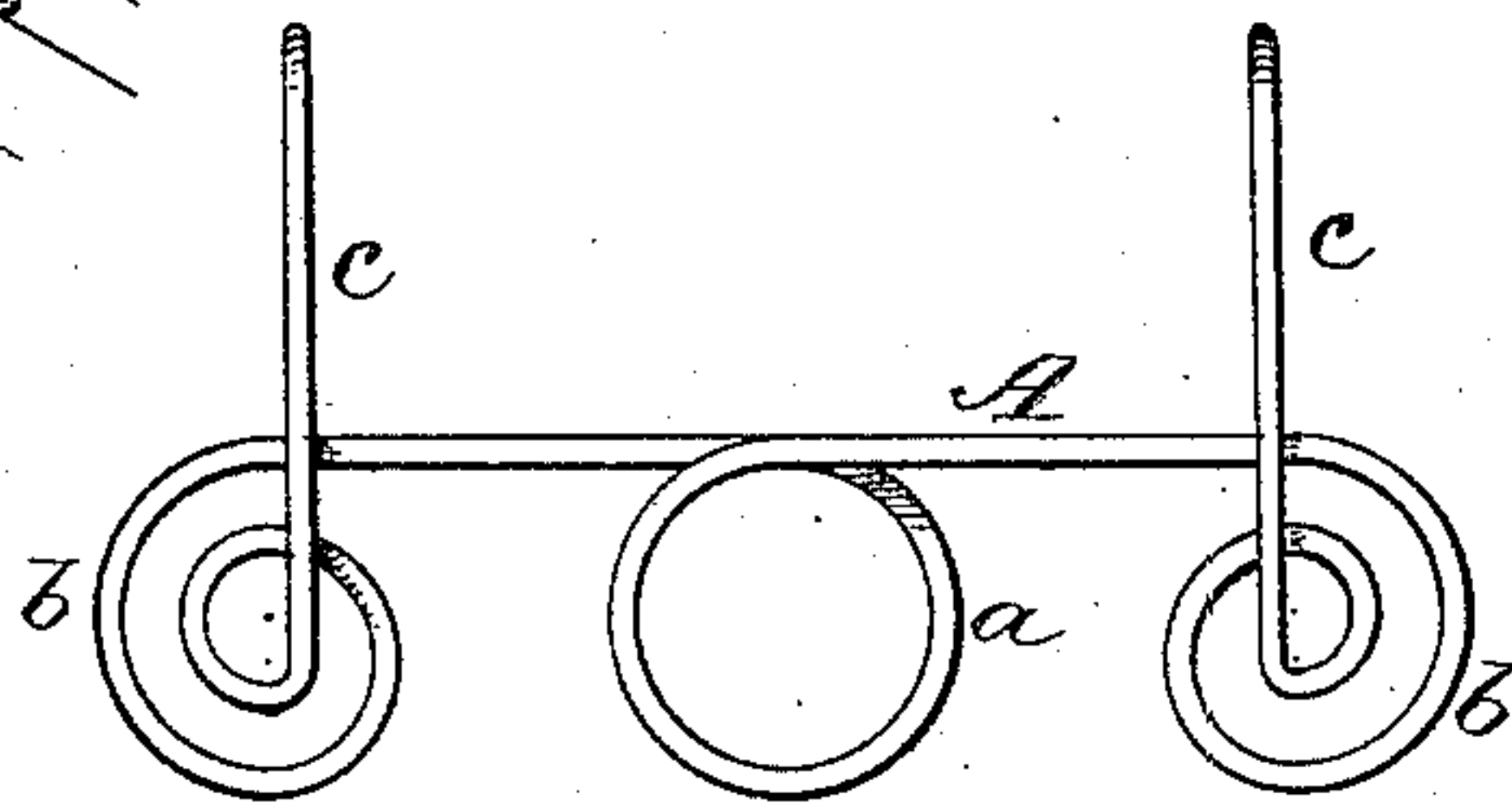
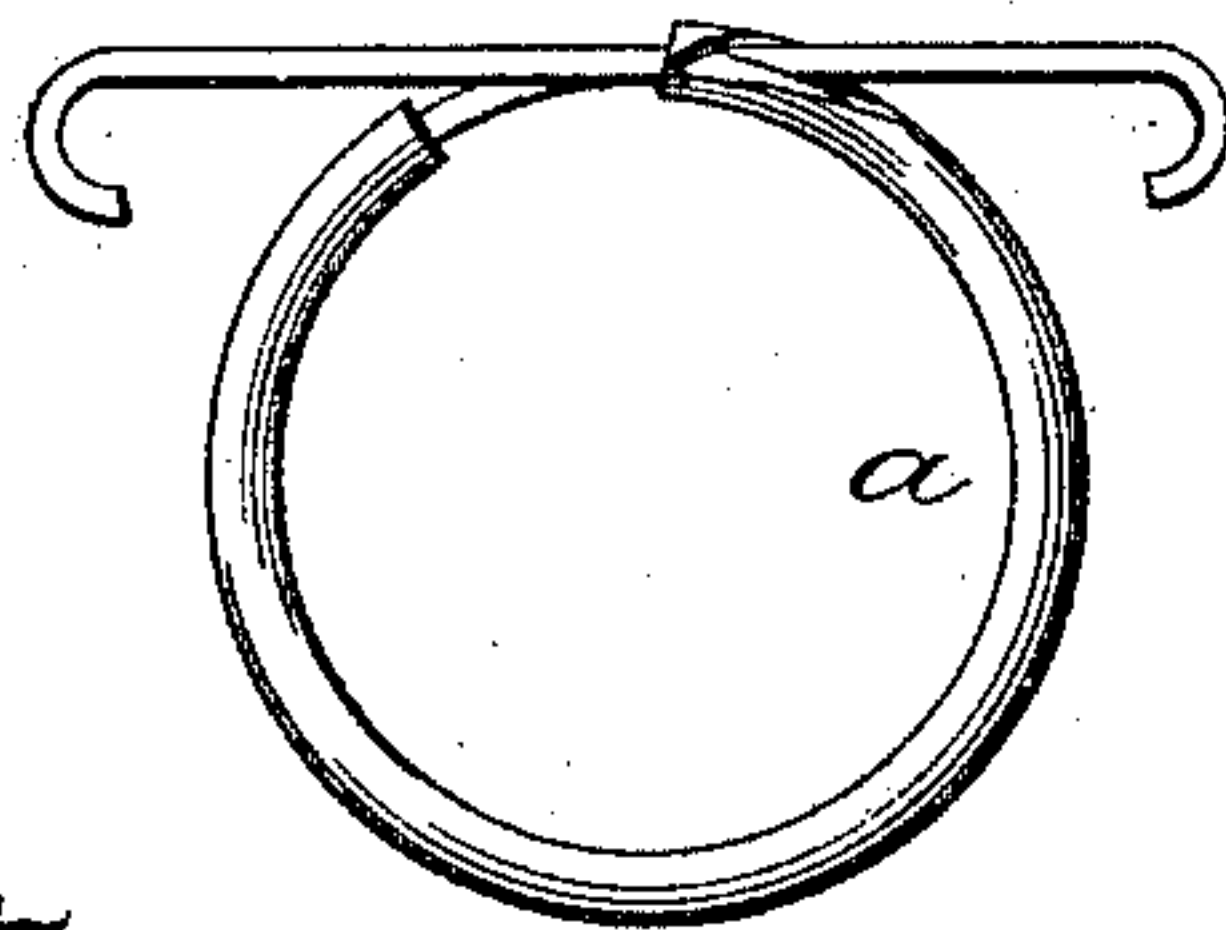


Fig. 4.



WITNESSES
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SPRING BED-BOTTOM.

SPECIFICATION forming part of Letters Patent No. 283,903, dated August 28, 1883.

Application filed February 1, 1883. (No model.)

To all whom it may concern:

Be it known that I, ELBERT D. LARAWAY, a citizen of the United States, residing at Hartford, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Spring Bed-Bottoms; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a plan view of my invention; Fig. 2, a detail perspective view of a portion thereof; Fig. 3, a detail view of one of the wires, and Fig. 4 a similar view of one of the coils or loops provided with wrapper.

This invention relates to certain new and useful improvements in spring bed-bottoms, the object thereof being to produce such a bed-bottom as will be cheap, simple, strong, and more elastic than those in general use, while at the same time it is readily attached to or detached from a bed-frame and very compactly arranged for storage and transportation.

The invention therefore consists in a series of wires extending in any direction of the bed-frame and placed at suitable distances apart, each wire being preferably bent to form one or more coils or loops between its ends, and also bent in two or more coils or segments of circles upon the same horizontal plane, terminating, preferably, in either a plain or spring hooked extension, by which the springs thus formed may be connected together and the end or side springs with the end or side rails of the bed-frame. The springs, being made, preferably, in sections, are united by means of plain or spring hooks, loops, or other suitable fastenings, for the purpose of making the bed-bottom any desired width in a simple and expeditious manner, and the coils or loops of each wire, being placed on the same relative plane, are united by similar fastenings.

In the accompanying drawings, A represents a series of spring-wires so bent as to form one or more coils or loops, *a*, between their ends, and also bent in the form of two or more coils or segments of circles upon the same horizontal plane to form springs *b*, terminating, preferably, in a hooked extension, *c*, either plain

or bent in a coil, as shown at *d*, Fig. 2, in order to increase the elasticity.

The springs formed of the wires A are placed at suitable distances apart in any direction of the bed-frame, with their coils *a* and springs *b* arranged relatively to each other on the same horizontal plane, springs *b* being united by their hooked extensions, and the coils *a* by plain or spring hooks *e* or other suitable fastenings, while at the same time the hooked extensions of the end or side wires may be connected with the end or side rails of the bed-frame without the use of any intermediate hooks, the coils or loops of these wires being also connected to the rails by plain or spring hooks or like fastenings *f*.

To strengthen the spring and prevent the coils or loops from spreading, I use a wrapper, of metal or other suitable material, arranged to cover the wire forming said coils or loops, substantially as shown in Fig. 4.

As a matter of convenience, I prefer to construct the springs formed of the wires A in sections, and connect the same by plain or spring hooks, or other like fastenings, *g*, in order to make the bed-bottom any desired width in a simple and expeditious manner, although it is obvious that each of said springs may be made of one continuous wire, extending in any direction, without departing from my invention. It should be noticed that the coils or curves of the springs *b* are on the same horizontal plane, in contradistinction to the ordinary spiral spring, in which the coils are on different horizontal planes, and consequently when used in a bed-bottom it is necessary to employ slats or their equivalent for the lower ends of the springs to rest on.

By the construction above described I am enabled to produce a cheap, simple, strong, and more thoroughly elastic spring bed-bottom than those in ordinary use, while at the same time, owing to its simplicity, it can be readily attached to or detached from any bed-frame, and the several parts being detachably connected, said bed-bottom may be very compactly arranged for storage and transportation.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A spring bed-bottom consisting of a series of wires bent to form coiled springs, the coils or curves thereof being on the same horizontal plane, substantially as and for the purpose set forth.

2. In a spring bed-bottom, a series of wires formed with springs having their coils or curves on the same horizontal plane, and one or more intermediate loops, in combination with means, substantially as described, for connecting said wires together and to the bed-frame, as and for the purpose specified.

3. A spring bed-bottom constructed of a series of wires formed throughout their length with one or more springs, having their coils or curves on the same horizontal plane, and one or more loops, and means for connecting said wires together and to the bed-frame, substantially as and for the purpose set forth.

4. In a spring bed-bottom, a series of wires, each of which is bent to form coiled springs and intermediate loop or loops, said springs terminating in suitable hooked extensions, adapted to unite the several wires one with the other, substantially as and for the purpose specified.

5. A spring bed-bottom constructed of a series of wires formed throughout their length

with one or more loops and coiled springs, the latter terminating in suitable hooked extensions, adapted to unite the wires one with another, the loops being united by means of plain or spring hooks or other like fastenings, substantially as and for the purpose set forth.

6. A spring bed-bottom composed of a series of wires, each constructed with one or more loops between its ends, and also coiled springs which terminate in suitable hooked extensions, said wires being placed at suitable distances apart, with their springs and loops arranged on the same relative plane and connected together and to the bed-frame in the manner substantially as shown and described.

7. As an improved article of manufacture, a continuous wire adapted to be connected to a bed-frame, said wire being bent to form loop or loops, and coiled springs terminating in hooked extensions, substantially as, and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

ELBERT D. LARAWAY.

Witnesses:

ASAHEL A. HUNT,
A. G. LOOMIS.